

#### Insulated enclosure, HxWxD=160x100x145mm, +mounting plate

Powering Business Worldwide\*

Part no. CI-K2H-145-M Article no. 229307

#### **Delivery program**

Delivery program		
Product range		CI-K small enclosures
Basic function		Basic enclosures
Product function		CI-K empty enclosures
Single unit/Complete unit		Single unit
Degree of Protection		Front IP65 IP65, with push-through cable entry
Degree of Protection		Front IP65 IP65, with push-through cable entry
Material		Glass-fibre reinforced polycarbonate
Colour		Enclosure base RAL 9005, black Operator only RAL 7035, light gray
Description		Metric cable entry knockouts top, bottom and in the back plate Control cable entry Lamp indicator L can be mounted in base knock-out M20/M25
Cable entry		hard knockout version
Dimensions		
Width	mm	100
Height	mm	160
Depth	mm	145
Dimensions	mm	
Enclosure depth		
Legend for the graphic		Dimensions from top: Mounting depth with mounting plate Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 15 mm height
Enclosure depth	mm	145
Mounting depth with mounting plate	mm	124
Features		With mounting plate

#### Notes



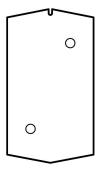
Knockouts

2 X M25 or push-through membrane up to max.  $^{ extstyle Q}$  16 mm



Knockouts

 $2\,x\,M25$  or push-through membrane up to a max. diameter of 16 mm and 1 push-through membrane up to a max. diameter of 8 mm



Back plate:

Standards

2 x push-through membrane up to max. (not for CI-K2H)

### Technical data General

Deprese of Protection Color	Standards		DIN EN 62208
Degree of Protection  Power loss  Macs radiated heat dissipation with separate mounting, ambient air memorature : 20°C  Material  Macs radiated heat dissipation with separate mounting, ambient air memorature : 20°C  Material  Base  Coor  Surface treatment  Colour  Base	Climatic proofing		
Power loss  Max radiated heat dissipation with separate mounting, ambient air war parature 20°C  Max radiated heat dissipation with separate mounting, ambient air war parature 20°C  Material Characteristics  Material  Base Cover  Cov	Ambient temperature	°C	
Max. radiated heat dissipation with separate mounting, ambient air variety var	Degree of Protection		
Material Characteristics  Material Characteristics  Base Cover Gale Gisss-fibre reinforced polycarbonate Cover Gale Gisss-fibre reinforced polycarbonate Colour Golour Gale Gale Gisss-fibre reinforced polycarbonate Colour Golour Gale Gale Gale Gale Gale Gale Gale Gale	Power loss		
Material Base   Gover   Glass-fibre reinforced polycarbonate   Glass-fibre reinforced polycarbon		W	18.5
Base Cover Glass-fibre reinforced polycarbonate	Material characteristics		
Cover Surface treatment Surface Surfac	Material		
Surface treatment Colour Base Housing body Rall 9005, black (matt) Housing body Raterial properties Electrical Track resistance In IEC 60093 In IEC	Base		Glass-fibre reinforced polycarbonate
Colour Base RAL 9005, black (matt) Housing body Material properties Electrical Track resistance to IEC 60093 Dielectric strength to IEC 60093 Dielectric strength to IEC 60093 Temperature resistant Impact resistance Impact resistance Mounting plate Mounting rail Mounting rail Chemical resistance Chemical resistance  Chemical resistance  Aurona signature Aurona signature Aurona signature Saline spray UV resistance  Saline spray  Water consumption to DIN EN ISO 62  RAL 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (matt) Enclosure (RAL 7035, light grey (matt)  Ral 9005, black (light grey (matt)  Ral 9005, black (light grey (matt)  Ral 9005, black (light grey (matt)  Ral 9005, light grey (matt)  Ral 9005, black (light grey (matt)  Ral 9005, light grey (matt)  Ral 9005, black (light grey (matt)  Ral 9005, light grey (matt)  Ral 9005,	Cover		Glass-fibre reinforced polycarbonate
Base Housing body Material properties Electrical Track resistance Track re	Surface treatment		Resistant to corrosion
Housing body  Material properties  Electrical  Track resistance  Surface resistance to IEC 60093  Dielectric strength to IEC 60243-1  Thermal  Temperature resistant  Impact resistance  Mounting plate Mounting plate Mounting rail  Chemical resistant  Chemical resista	Colour		
Material properties	Base		RAL 9005, black (matt)
Electrical  Track resistance  Surface resistance to IEC 60033  Dielectric strength to IEC 60243-1  Temperature resistant  Temperature resistant  Mechanical  Impact resistance  Mounting plate  Mounting rail  Chemical resistant  Chemical resistant  Authors plate	Housing body		Enclosure cover RAL 7035, light grey (matt)
Track resistance  Surface resistance to IEC 60093  Dielectric strength to IEC 60243-1  Thermal  Temperature resistant  Impact resistance  Impact resistance  Mechanical  Impact resistance  Mounting plate  Mounting rail  Chemical resistant  Chemical resistant  Chemical resistant  About the strength of IEC 60243-1  About the strengt	Material properties		
Surface resistance to IEC 60083 0 x 10 <sup>13</sup> 1  Dielectric strength to IEC 60243-1  Temperature resistant  Temperature resistant  Mechanical Impact resistance	Electrical		
Dielectric strength to IEC 60243-1 Temperature resistant  Temperature resistant  Temperature resistant  Mechanical Inpact resistance Inpact resistance  Mounting plate Mounting rail Chemical resistance  Chemical resistance  Chemical resistance  Amounting rail  Amounting rail  Chemical resistance  Chemic	Track resistance		
Temperature resistant  Temperature resistant  Temperature resistant  Temperature resistant  Mechanical  Impact resistance  Impact resistance  Mounting plate  Mounting rail  Chemical resistance  Chemical resistant  Temperature resistant  Atmospheric  Saline spray  UV resistance  Temperature resistant  Atmospheric  Saline spray  Water consumption to DIN EN ISO 62  Temperature resistant  Atmospheric  Temperature resistant  Atmospheric  Saline spray  Water consumption to DIN EN ISO 62  Temperature resistant  Atmospheric  Atmospheric  Saline spray  Water consumption to DIN EN ISO 62  Temperature resistant  Adv C - 120 °C (enclosure)  -40 °C - 120 °C (enclosure) -40 °C - 180 °C (gasket)  IKO6 according to EN 50102   IKO6 according to EN 50102    Base, Cover Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 %, greases, benzene Not resistant to: Acids > 10 %, greases, benzene Not resistant to: Mineral oil, benzene  IEC 60068-2-11  Beneath protective shield	Surface resistance to IEC 60093	$\Omega \times 10^{13}$	1
Temperature resistant  Ad °C - 120 °C (enclosure) -40 °C - +80 °C (gasket)  Mechanical  Impact resistance Impact resistance  Mounting plate Mounting rail  Chemical resistance  Chemical resistant  Chemical resistant  Authorspheric  Saline spray  UV resistance  Water consumption to DIN EN ISO 62  A c °C - 120 °C (enclosure) -40 °C - +80 °C (gasket)  IKO6 according to EN 50102  IKO6 according t	Dielectric strength to IEC 60243-1	kV/mm	30
Adv C - 480 °C (gasket)   Adv C - 480 °C (gasket)	Thermal		
Impact resistance max. assembly weights  Mounting plate Mounting rail  Chemical resistance  Chemical resistant  Chemical resis	Temperature resistant		
Mounting plate kg 0.7  Mounting rail kg 0.7  Chemical resistance  Chemical resistant Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Akdis > 10 %, alcohol Not resistant to: Alkalis, benzene Push-through membrane (CI-K/ICI-KZ) and sealing material Resistant against: Acids < 10 %, alkalis, benzene, salt solutions Partly resistant to: Alkalis, benzene Not resistant to: Acids > 10 %, greases, benzene Not resistant to: Acids < 10 %, alkalis, benzene, salt solutions Partly resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, benzene Not resistant to: Acids < 10 %, greases, salt solutions Partly resistant to: Acids < 10 %, greases, salt solutions Partly resistant to: Acids < 10 %, greases, salt solutions Partly resistant to: Acids < 10 %, greases, salt solutions partly resistant to: Acids < 10 %, greases, salt solutions partly resistant to: Acids < 10 %, greases, salt solutions partly resistant to: Acids < 10 %, greases, salt solutions partly resistant to: Acids < 10 %, greases, salt solutions partly resistant to: Acids < 10 %, greases, salt solutions partly resistant to: Acids < 10 %, greases, salt solutions partly resistant to: Acids < 10 %, greases, salt solutions partly resistant to: Acids < 10 %, greases, salt solutions partly resistant to: Acids < 10 %, greases, salt solutions partly resistant	Mechanical		
Mounting rail kg 0.7  Chemical resistance  Chemical resistant  Chemical resistant  Share Cover Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: alkalis, benzene Push-through membrane (CI-KI/CI-K2) and sealing material Resistant against: Acids < 10 %, alkalis, benzene, salt solutions Partly resistant to: Acids > 10 %, alkalis, benzene, salt solutions Partly resistant to: Mineral oil, benzene Not resistant to: Mineral oil, benzene    Saline spray   IEC 60068-2-11     UV resistance   Beneath protective shield     Water consumption to DIN EN ISO 62   % 0.29	Impact resistance		IK06 according to EN 50102
Mounting rail  Chemical resistance  Chemical resistant  Chemical resistant  Chemical resistant  Base, Cover Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Akidis, benzene Push-through membrane (CI-KI/CI-K2) and sealing material Resistant against: Acids < 10 %, alkalis, benzene, salt solutions Partly resistant to: Akidis < 10 %, greases, benzene Not resistant to: Mineral oil, benzene  Saline spray  IEC 60068-2-11  UV resistance  Water consumption to DIN EN ISO 62  % 0.29	max. assembly weights		
Chemical resistant  Chemical resistant  Chemical resistant  Base, Cover Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 %, alcohol Not resistant to: alkalis, benzene Push-through membrane (CI-K1/CI-K2) and sealing material Resistant against: Acids < 10 %, alcohol Not resistant to: alkalis, benzene Push-through membrane (OI-K1/CI-K2) and sealing material Resistant against: Acids < 10 %, alcohol Not resistant to: alkalis, benzene Push-through membrane (OI-K1/CI-K2) and sealing material Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 %, greases, benzene Not resistant to: Mineral oil, benzene  IEC 60068-2-11  UV resistance  Beneath protective shield  O.29	Mounting plate	kg	0.7
Chemical resistant  Base, Cover Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 %, alcohol Not resistant to: alkalis, benzene Push-through membrane (CI-KI/CI-K2) and sealing material Resistant against: Acids < 10 %, alkalis, benzene, salt solutions Partly resistant to: Acids > 10 %, alkalis, benzene, salt solutions Partly resistant to: Mineral oil, benzene Not resistant to: Mineral oil, benzene  EC 60068-2-11 UV resistance  Water consumption to DIN EN ISO 62  % 0.29	Mounting rail	kg	0.7
Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 %, alcohol Not resistant to: alkalis, benzene Push-through membrane (CI-KI/CI-K2) and sealing material Resistant against: Acids < 10 %, alkalis, benzene, salt solutions Partly resistant to: Acids > 10 %, greases, benzene Not resistant to: Mineral oil, benzene  Saline spray  IEC 60068-2-11  UV resistance  Beneath protective shield  Water consumption to DIN EN ISO 62  % 0.29	Chemical resistance		
Saline spray IEC 60068-2-11  UV resistance Beneath protective shield  Water consumption to DIN EN ISO 62 % 0.29			Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 %, alcohol Not resistant to: alkalis, benzene Push-through membrane (CI-K1/CI-K2) and sealing material Resistant against: Acids < 10 %, alkalis, benzene, salt solutions Partly resistant to: Acids > 10 %, greases, benzene
UV resistance Beneath protective shield Water consumption to DIN EN ISO 62 % 0.29	Atmospheric		
Water consumption to DIN EN ISO 62 % 0.29			IEC 60068-2-11
	UV resistance		Beneath protective shield
Flammability characteristics	Water consumption to DIN EN ISO 62	%	0.29
	Flammability characteristics		

IEC/EN 60529

Glow wire test	
Flammability characteristics	960 °C/1mm thickness (base, cover; glow wire to VDE 0471 Part 2) 650 °C/1mm thick (push-through membrane and seal material) to VDE 0471 Part 2)
to UL 94	V0/1.5 mm thickness
to UL 94	нв
Halogen free	Yes

### Design verification as per IEC/EN 61439

Design vernication as per 1EG/EN 01433		
Technical data for design verification		
Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	70
Degree of Protection		Front IP65 IP65, with push-through cable entry
Max. radiated heat dissipation with separate mounting, ambient air temperature +20 $^{\circ}\text{C}$	W	18.5
Flammability characteristics		960 °C/1mm thickness (base, cover; glow wire to VDE 0471 Part 2) 650 °C/1mm thick (push-through membrane and seal material) to VDE 0471 Part 2)
Track resistance		CTI 175 (base, to IEC 60112) CTI 175 (cover, to IEC 60112)
Surface treatment		Resistant to corrosion
Impact resistance		IK06 according to EN 50102
Temperature resistant		-40 °C - 120 °C (enclosure) -40 °C - +80 °C (gasket)
UV resistance		Beneath protective shield
IEC/EN 61439 design verification		
10.2 Strength of materials and parts		
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		Please enquire
10.2.5 Lifting		Not applicable.
10.2.6 Mechanical impact		Meets the product standard's requirements.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES		Meets the product standard's requirements.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Is the panel builder's responsibility.
10.6 Incorporation of switching devices and components		Is the panel builder's responsibility.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9 Insulation properties		
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Meets the product standard's requirements.
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

### **Technical data ETIM 6.0**

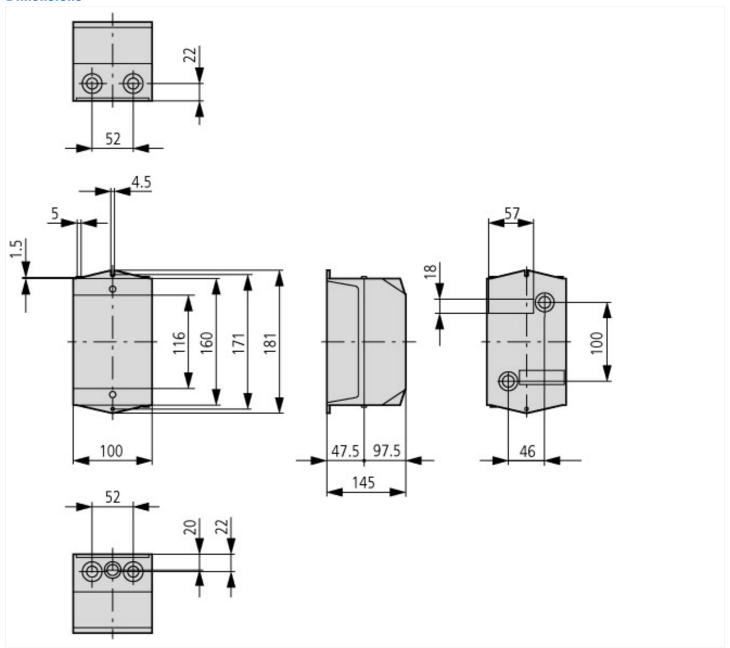
Low-voltage industrial components (EG000017) / Empty enclosure for switchgear (EC000712)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Empty housing for switch devices (eci@ss8.1-27-37-13-01 [AKN343011])

(ecl@ss8.1-27-37-13-01 [AKN343011])			
Material housing			Plastic
Width	1	mm	100

Height	mm	160
Depth	mm	145
With transparent cover		No
Suitable for emergency stop		Yes
Model		Surface mounting
Degree of protection (IP)		IP65

# **Dimensions**



## **Additional product information (links)**

IL01502081Z (AWA3210-1735) Insulated small enclosures

IL01502081Z (AWA3210-1735) Insulated small enclosures

ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL01502081Z2015\_11.pdf